


Substitute for form 1448A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/040,054
				Filing Date	1/4/02
				First Named Inventor	Steven Teig
				Group Art Unit	2881 2825
				Examiner Name	DIM-TAW
Sheet	1	of	1	Attorney Docket Number	SPLX.P0047

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
M7D	1.	2001/ 0003843	A1	Scepanovic et al.	06-14-01	
	2.	4,615,011		Linsker	09-30-88	
	3.	4,673,966		Shimoyama	06-16-87	
	4.	4,782,193		Linsker	11-01-88	
	5.	4,855,929		Nakajima	08-08-89	
	6.	5,097,422		Corbin II et al.	03-17-92	
	7.	5,251,147		Finnerty	10-05-93	
	8.	5,281,151		Arima et al.	01-25-94	
	9.	5,360,948		Thornberg	11-01-94	
	10.	5,375,069		Satoh et al.	12-20-94	
	11.	5,532,934		Rostoker	07-02-96	
	12.	5,578,840		Scepanovic	11-26-96	
	13.	5,633,479		Hirano	05-27-97	
	14.	5,634,093		Ashida et al.	05-27-97	
	15.	5,636,125		Rostoker et al.	08-03-97	
	16.	5,650,653		Rostoker et al.	07-22-97	
	17.	5,657,242		Sekiyama et al.	08-12-97	
	18.	5,723,908		Fuchida et al.	03-03-98	
	19.	5,742,086		Rostoker et al.	04-21-98	
	20.	5,757,656		Hershberger et al.	05-26-98	
	21.	5,777,360		Rostoker et al.	07-07-98	
	22.	5,811,863		Rostoker et al.	09-22-98	
	23.	5,822,214		Rostoker et al.	10-13-98	
	24.	5,859,449		Kobayashi et al.	01-12-99	
	25.	5,898,597		Scepanovic et al.	04-27-99	

Examiner Signature		Date Considered	9/12/06
-----------------------	-------------------------------------------------------------------------------------	--------------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/040,054
				Filing Date	1/4/02
				First Named Inventor	Steven Teig
				Group Art Unit	2861 2825
				Examiner Name	DIM-16A
Sheet	2	of	2	Attorney Docket Number	SPLX.P0047

U.S. PATENT DOCUMENTS						
M-79	26.	5,914,887		Scepanovic et al.	06-22-99	
	27.	5,973,376		Rostoker et al.	10-26-99	
	28.	6,035,108		Kikuchi	03-07-00	
	29.	6,058,254		Scepanovic et al.	05-02-00	
	30.	6,067,409		Scepanovic et al.	05-23-00	
	31.	6,068,662		Scepanovic et al.	05-30-00	
	32.	6,123,736		Pavisc et al.	09-26-00	
	33.	6,134,702		Scepanovic et al.	10-17-00	
	34.	6,155,725		Scepanovic et al.	12-05-00	
	35.	6,175,950	B1	Scepanovic	01-16-01	
	36.	6,216,252	B1	Dangelo et al.	04-10-01	
	37.	6,230,306	B1	Raspopovic et al.	05-08-01	
	38.	6,247,167	B1	Raspopovic et al.	06-12-01	
	39.	6,260,179	B1	Ohsawa et al.	07-10-01	
	40.	6,262,487	B1	Igarashi et al.	07-17-01	
	41.	6,289,495	B1	Raspopovic	09-11-01	
	42.	6,301,686	B1	Kikuchi et al.	10-09-01	
	43.	6,327,694	B1	Kanazawa	12-04-01	
	44.	6,378,121	B2	Hiraga	04-23-02	
	45.	6,385,758	B1	Kikuchi et al.	05-07-02	
	46.	6,401,234	B1	Alpert et al.	06-04-02	
	47.	6,405,358	B1	Nuber	06-11-02	
	48.	6,412,097	B1	Kikuchi et al.	06-25-02	
	49.	6,412,102	B1	Andreev et al.	06-25-02	
	50.	6,438,804	B2	Igarashi et al.	08-20-02	
	51.	6,446,245	B1	Xing et al.	09-03-02	
	52.	6,483,575	B1	Takahashi	10-08-02	

Examiner Signature		Date Considered	9/12/06
--------------------	-------------------------------------------------------------------------------------	-----------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

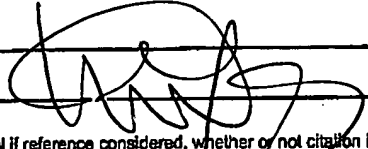
¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document, by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box ☐

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/040,054
				Filing Date	1/4/02
				First Named Inventor	Steven Teig
				Group Art Unit	268T 2825
				Examiner Name	DIM-14W
Sheet	3	of	3	Attorney Docket Number	SPLX.P0047

U.S. PATENT DOCUMENTS						
M-10	53.	6,516,455	B1	Teig et al.	02-04-03	—
	54.	2003/0025 205	A1	Shively	02-06-03	—

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ²	Number ³	Kind Code (if known) ⁴				
M-10 JD	55.	JP	64-15947		Ouchi	01-19-89	—	
	56.	JP	04000677		Fujiwara et al.	01-1992	—	

Examiner Signature		Date Considered	9/12/06
-----------------------	-------------------------------------------------------------------------------------	--------------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/040,054	
			Filing Date	1/4/02	
			First Named Inventor	Steven Teig	
			Group Art Unit	2661-2825	
			Examiner Name	DIM-THN	
Sheet	4	of	4	Attorney Docket Number	SPLX.P0047

NON PATENT LITERATURE DOCUMENTS			
Examiner* Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
M-T	57.	A.H. Farrahi, et al., Quality of EDA CAD Tools: Definitions, Metrics and Directions, Quality Electronic Design, 2000, Proceedings of the first International Symposium on March 2000, pp 395-405.	
	58.	A. Vannelli, et al., An adaptation of the interior point method for solving the global routing problem, 2/1991, IEEE pp 193-203.	
	59.	B. Berger, et al., Nearly Optimal Algorithms and Bounds for Multilayer Channel Routing, Journal of the Association for Computing Machinery, pp. 500-542, March 1995.	
	60.	C. Chiang, et al., Wirability of Knock-Knee Layouts with 45° Wires, IEEE Transactions on Circuits and Systems, Vol. 38, Issue 6, pp 613-624, June 1991.	
	61.	G. Overtone, EDA Underwriter 2 Finding Space in a Multilayer Board, Electronic Engineering, Morgan-Granplan LTD, vol. 67, No. 819, pp 29-30.	
	62.	G.D. Hachtel et al., Linear Complexity Algorithms for Hierarchical Routing, 1/89, IEEE pp 64-80.	
	63.	J.D. Cho, et al., Four-Bend Top Down Global Routing, IEEE, pp 793-802, 1998.	
	64.	J. Su et al., Post Route Optimization for Improved Yield Using Rubber-Band Wiring Model, 1997 International Conference on Computer-Aided Design, pp 700-706, November 1997.	
	65.	J. Vicente, RSR: A New Rectilinear Steiner Minimum Tree Approximation for FPGA Placement and Global Routing, Proceedings of the 24 th Euro Micro Conference, pp 192-195, August 1998.	
	66.	K. Powers et al., The 60° Grid: Routing Channels In Width d/square root 3, VLSI, 1991, Proceedings., First Great Lakes Symposium on Kalamazoo, MI, USA, pp 214-291, March 1991.	
	67.	M. Alexander et al., Performance-Oriented Placement and Routing for field-programmable gate arrays, Proceedings of the European Design Automation Conference, pp 80-85, 1995.	
	68.	M. Alexander et al., Placement and Routing for Performance-Oriented FPGA Layout, VLSI Design, Vol. 7, No. 1, 1998.	
	69.	M. Igarashi et al., A Diagonal-Interconnect Architecture and Its Application to RISC Core Design, 2002 IEEE Solid-State Circuits Conference, pp 210-460, February 2002.	
	70.	P. Dood, et al., A Two-Dimensional Topological Compactor with Octagonal Geometry, 28 th ACM/IEEE Design Automation Conference, pp 727-731, July 1991	
	71.	P. Parakh, et al., Congestion Driven Quadratic Placement, Proceedings of Design Automation Conference, 1998, pp 275-278.	
	72.	R. Putatunda et al., VITAL: Fully Automatic Placement Strategies for Very Large Semicustom Designs, Proceedings of the International Conference on Computer Design: VLSI in Computers and Processors, pp 434-439 October 1988.	

Examiner Signature		Date Considered	9/12/06
-----------------------	-------------------------------------------------------------------------------------	--------------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST, 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/040,054
				Filing Date	1/4/02
				First Named Inventor	Steven Teig
				Group Art Unit	2661 2875
				Examiner Name	D/M-1/A
Sheet	5	of	5	Attorney Docket Number	SPLX.P0047

NON PATENT LITERATURE DOCUMENTS			
M-70	73.	S. Dutt, et al., Probability-Based Approaches to VLSI Circuit Partitioning, IEEE Trans. On Computer Aided Design of IC's and Systems, Vol. 19, No. 5, May 2000, pp 534-549.	
	74.	Y. Sekiyama et al., Timing-Oriented Routers for PCB Layout Design of High-Performance Computers, International Conference on Computer Aided Design, pp 332-335, November 1991.	
	75.	C. Lelerson et al., Algorithm for Routing and Testing Routability of Planar VLSI Layouts, pp 69-78, May 1985.	
	76.	S. Das et al., Channel Routing in Manhattan-Diagonal Model, 9 th International Conference on VLSI Design, January 1996. pp 43-48.	
	77.	W. Wei-Ming Dai et al., Routability of a Rubber-Band Sketch. 28 th ACM/IEEE Design Automation Conference, 1991. pp 45-65.	
	78.	H. Chen, Routing L-Shaped Channels In Nonslicing-Structure Placement. 24 th ACM/IEEE Design Automation Conference, pp 152-165, 1987.	
	79.	I. Tollis, Techniques for Wiring In Non-Square Grids, pp 66-69. May 1989.	
	80.	E. Lodi et al., A 2d Channel Router for the Diagonal Model, pp 111-125, April 1991.	
	81.	E. Lodi et al., Routing in Times Square Mode, pp 41-48, June 1990.	
	82.	K. Cheng-Kok et al., Manhattan or Non Manhattan? A Study of Alternative VLSI Routing Architectures. pp 47-52, 2000	
	83.	E. Lodi et al., Routing Multiterminal Nets in a Diagonal Model, pp 899-902, 1988.	
	84.	D. Staepelaere et al., Surf: A Rubber-Band Routing System for Multichip Modules. pp 18-26, 1993.	
	85.	S. Das et al., Routing of L-Shaped Channels, Switch boxes and Staircases in Manhattan-Diagonal Model, pp 65-70m January 1998.	
	86.	W. Schlele et al., A Gridless Router for Industrial Design Rule, 27 th ACM/IEEE Design Automation Conference, pp 626-631, 1990.	
	87.	J. Nester, A New Look at Hardware Maze Routing, Proceedings of the 12 th ACM Symposium on Great Lakes Symposium on VLSI, pp 142-147, April 2002.	

Examiner Signature		Date Considered	9/12/06
--------------------	-------------------------------------------------------------------------------------	-----------------	---------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.